

FIG. 1

09981803-101901
T06TOT-E08T8660

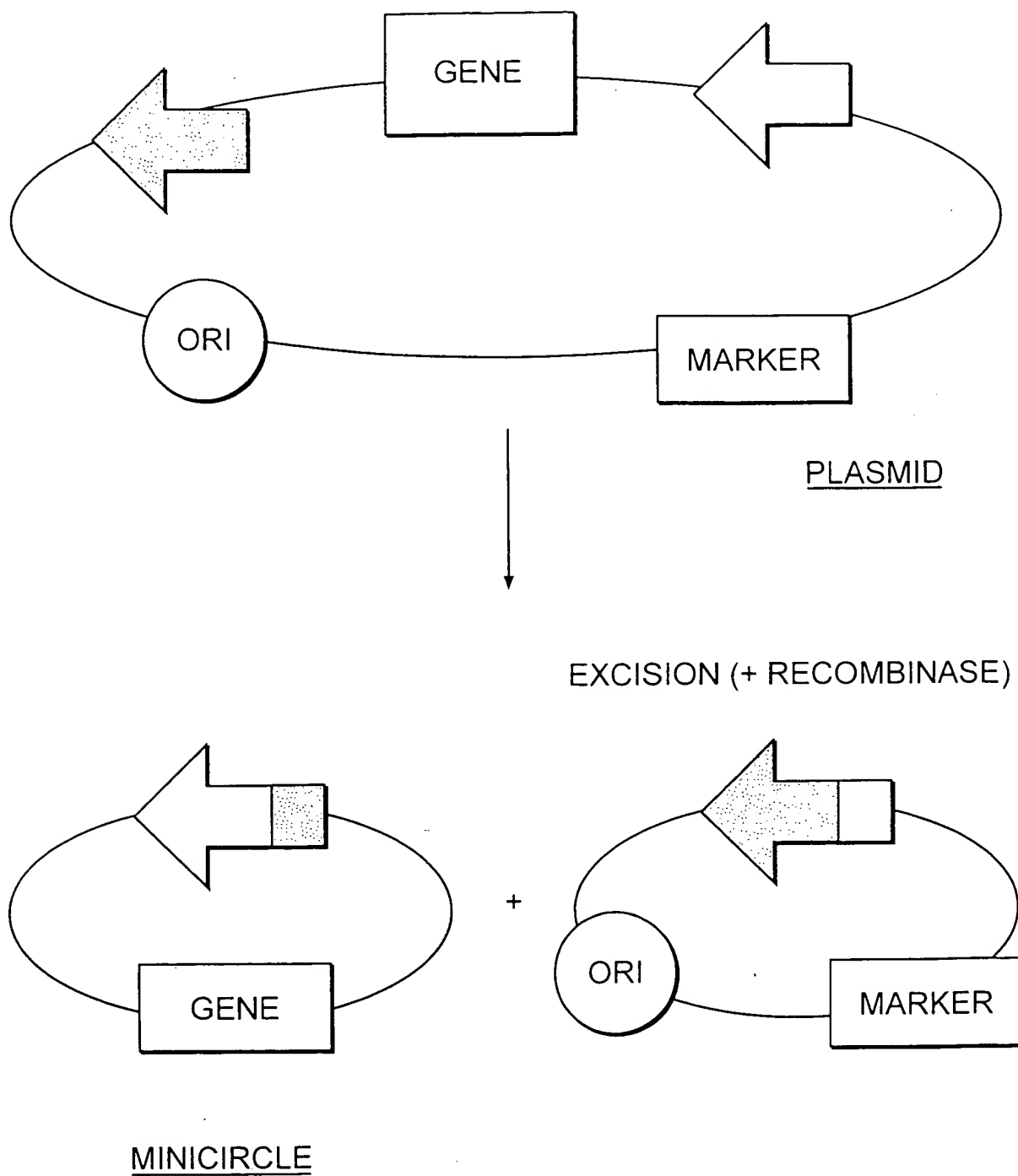


FIG. 2

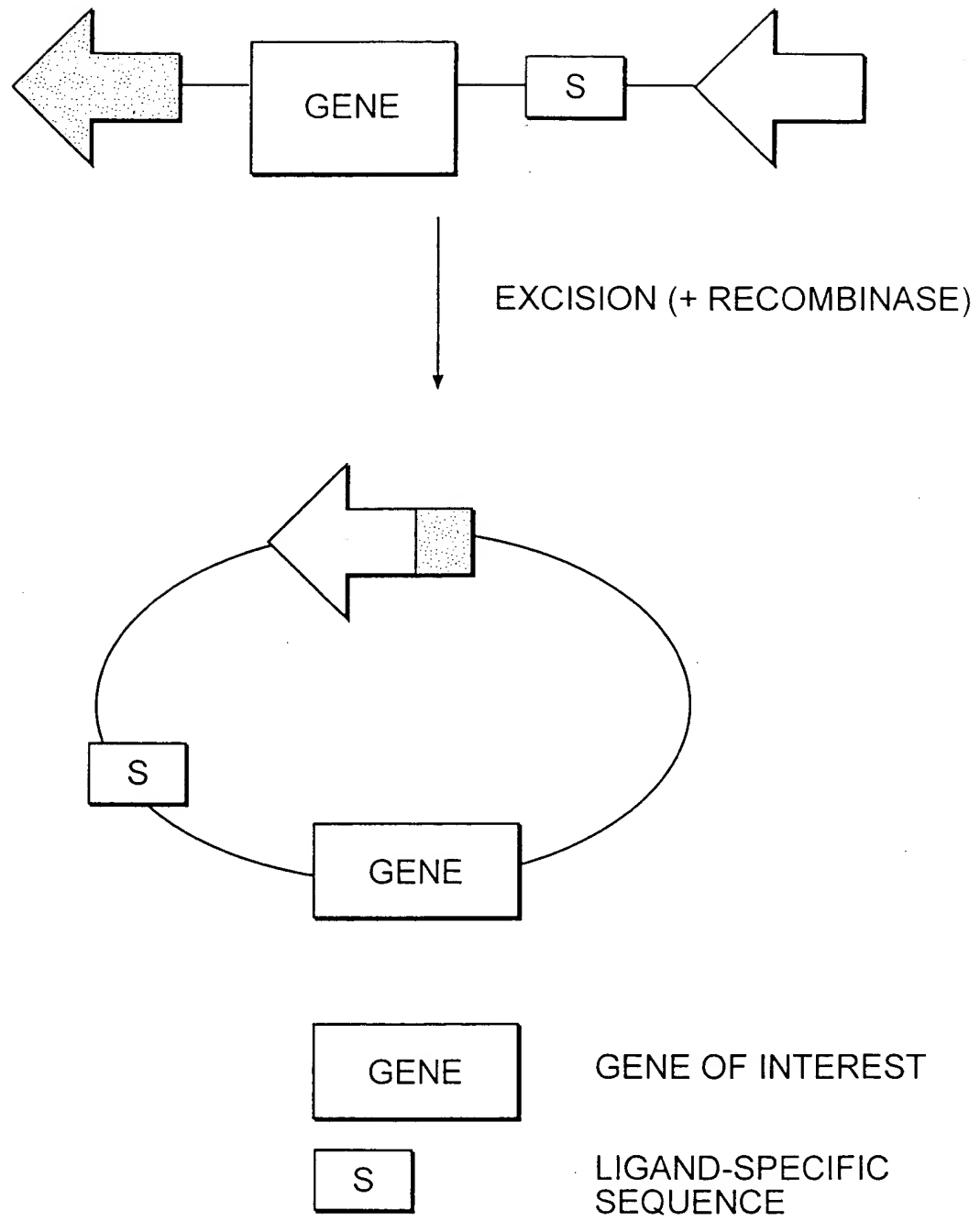


FIG. 3

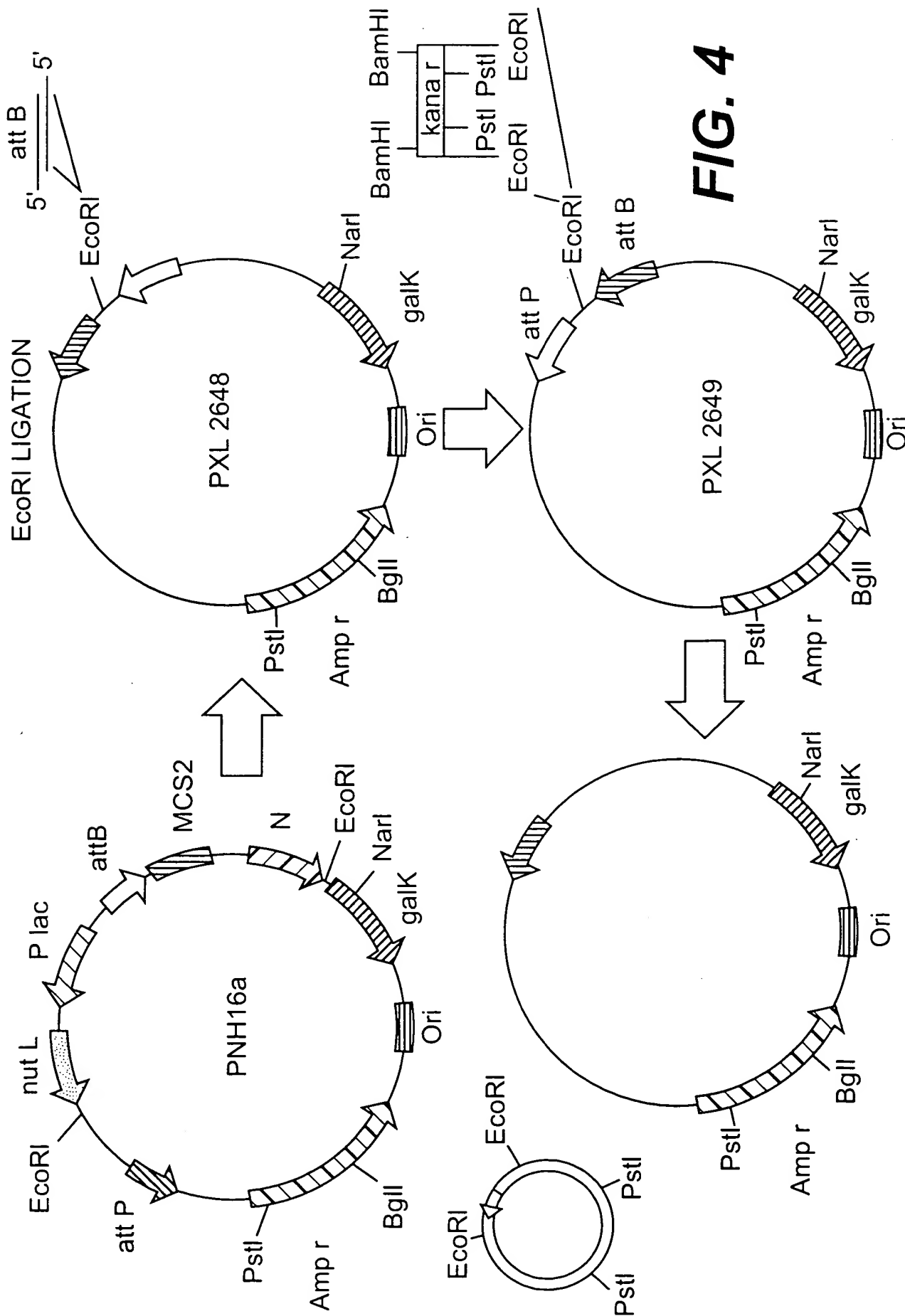
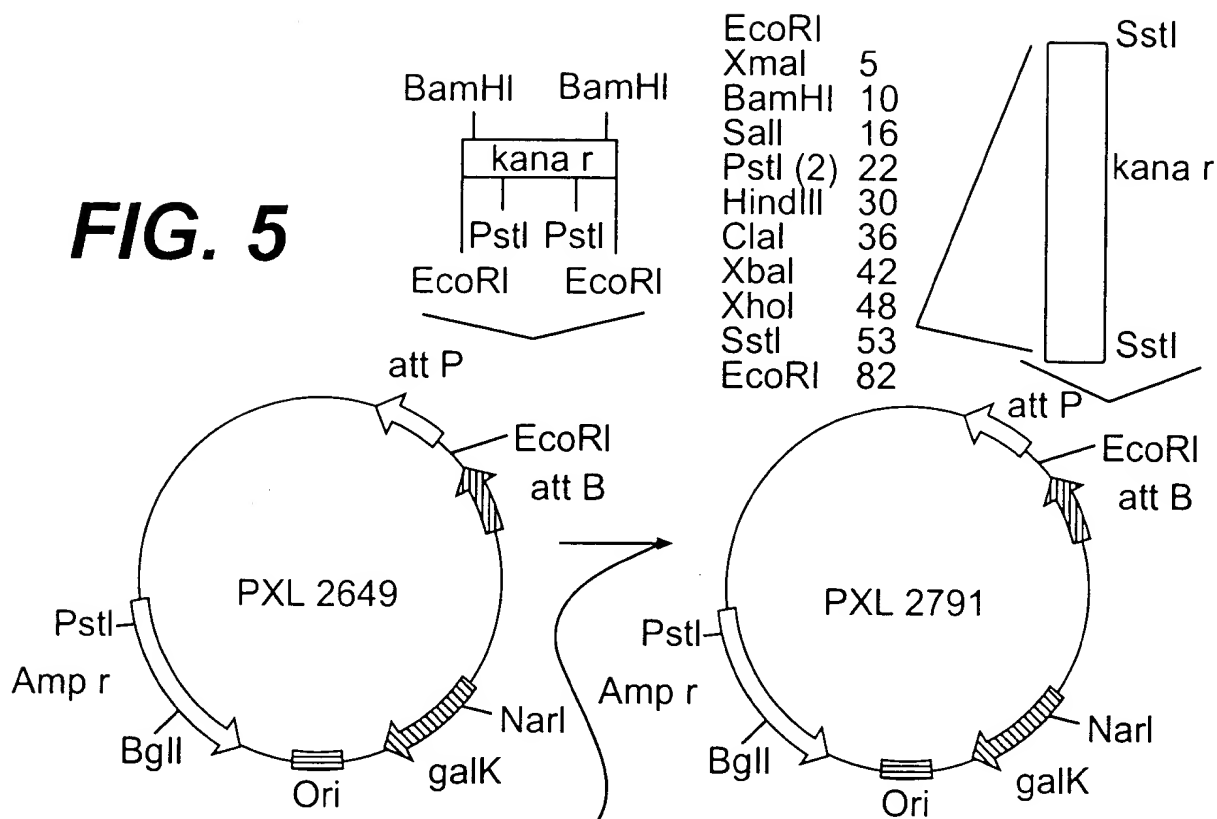


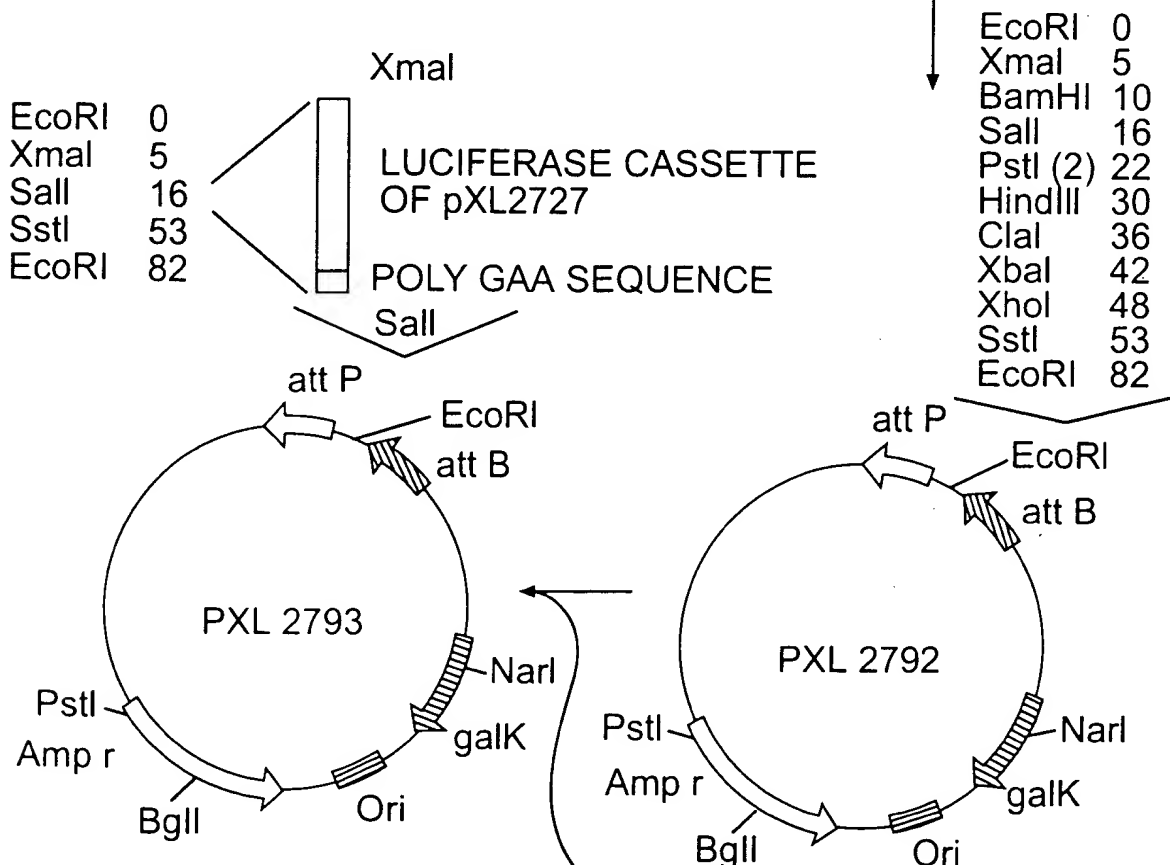
FIG. 4

FIG. 5



1- EcoRI DIGESTION OF pXL2649
2-CLONING OF THE EcoRI FRAGMENT
OF PLASMID pXL1571 SET

DIGESTION OF PLASMID
pXL2791 WITH SstI



1-DIGESTION OF pXL2792 WITH Sall AND XmaI
2- CLONING OF THE Sall-XmaI FRAGMENT OF PLASMID pXL2727

09981803-101901

LUCIFERASE ACTIVITY OBTAINED ON NIH
3T3 CELLS

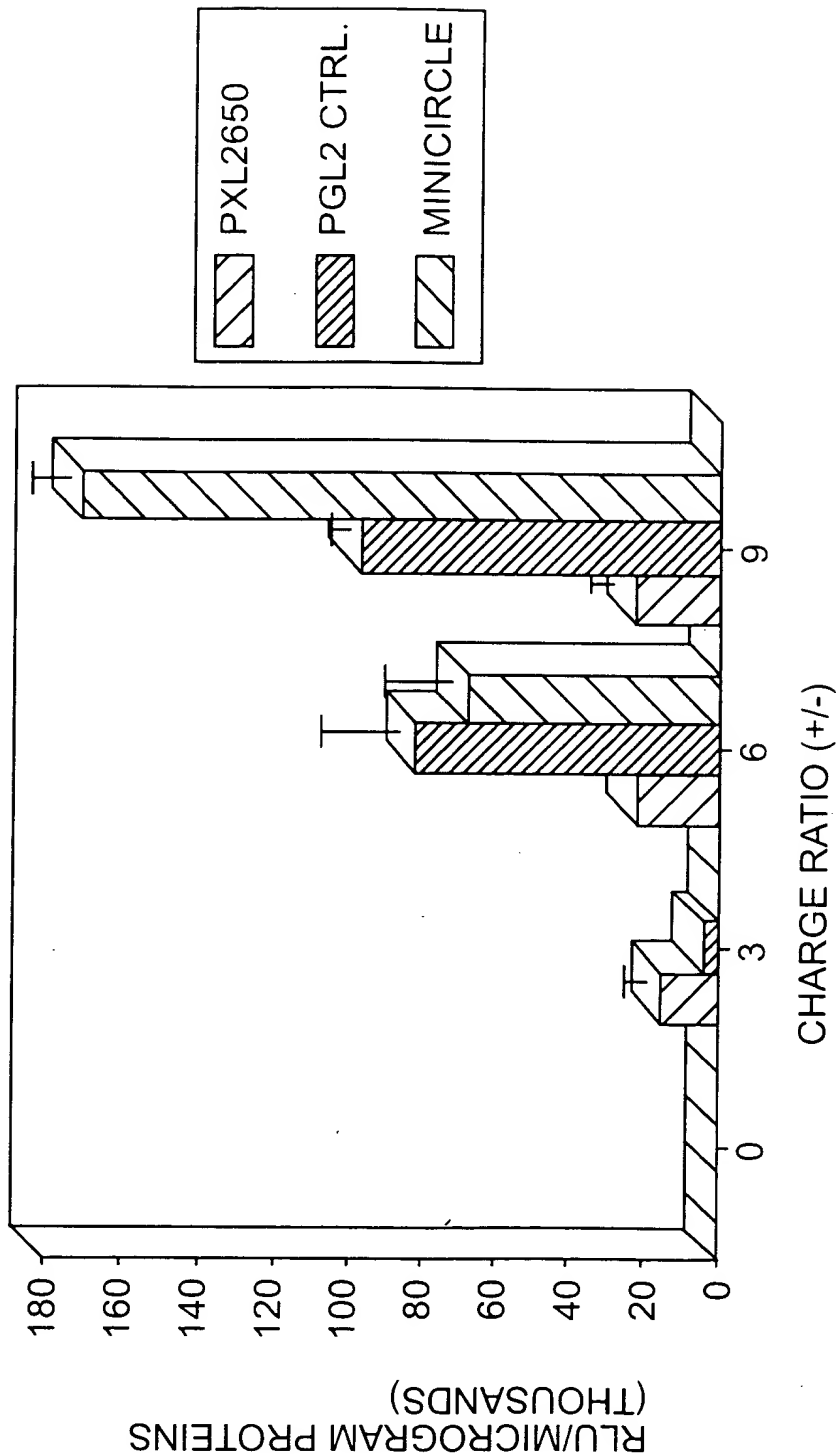


FIG. 6

09981803-101901

- 1 →
- 2 →
- 3 →
- 4 →
- 5 →
- 6 →

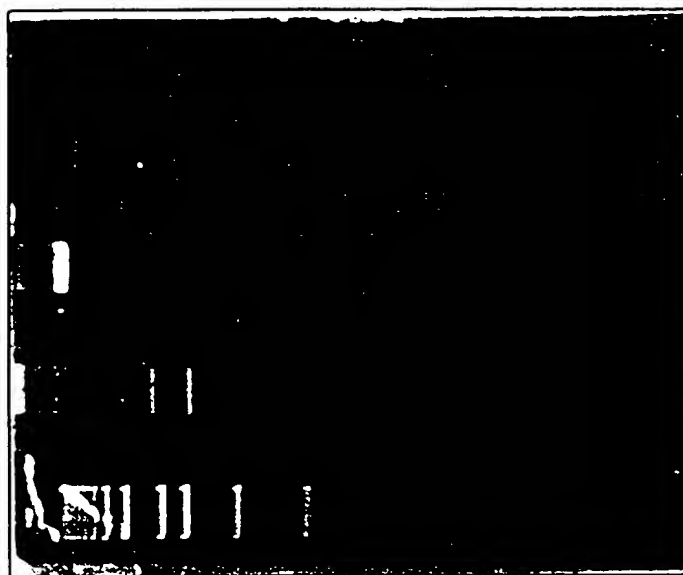


FIG. 7

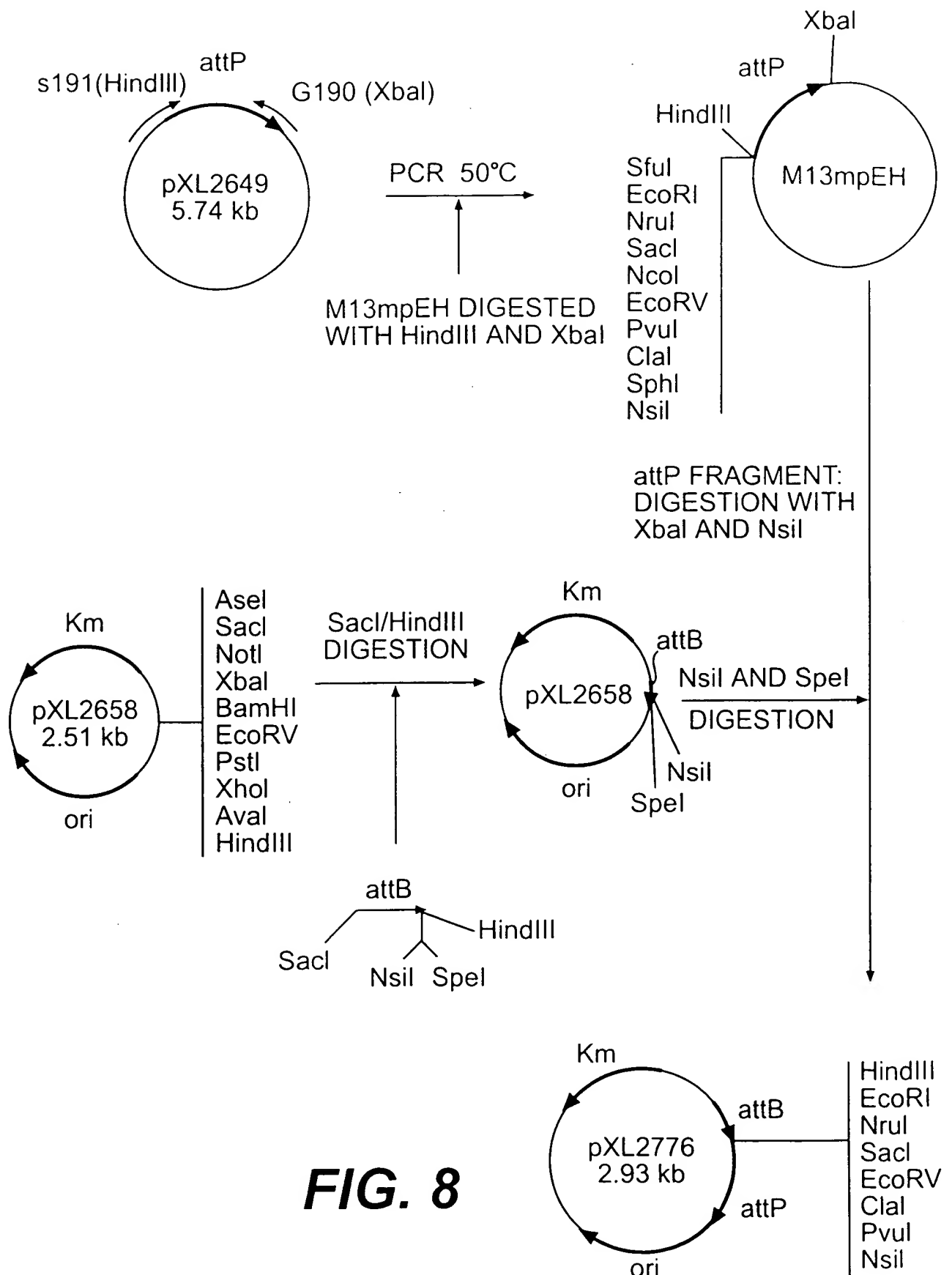


FIG. 8

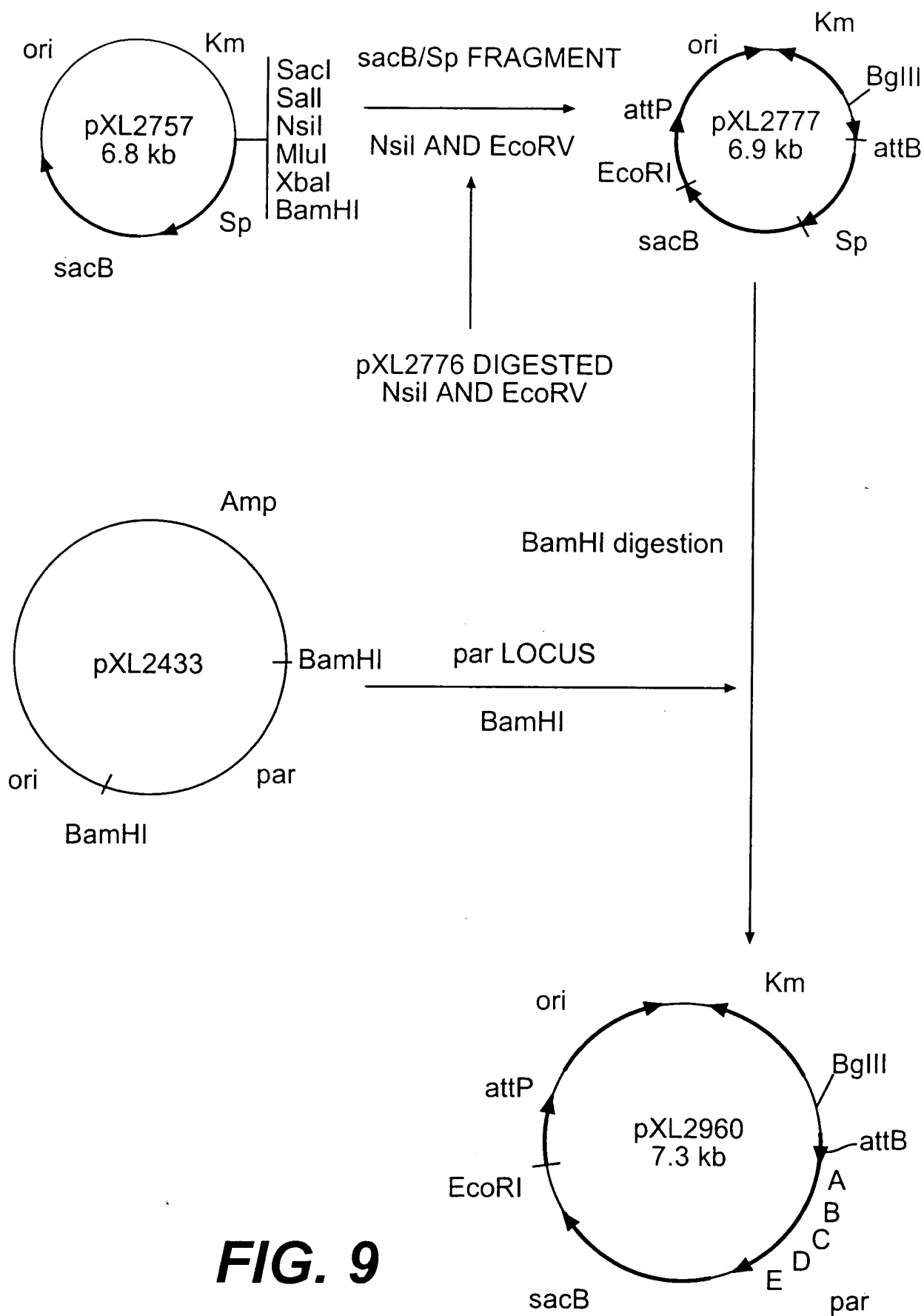


FIG. 9

09981803-101901

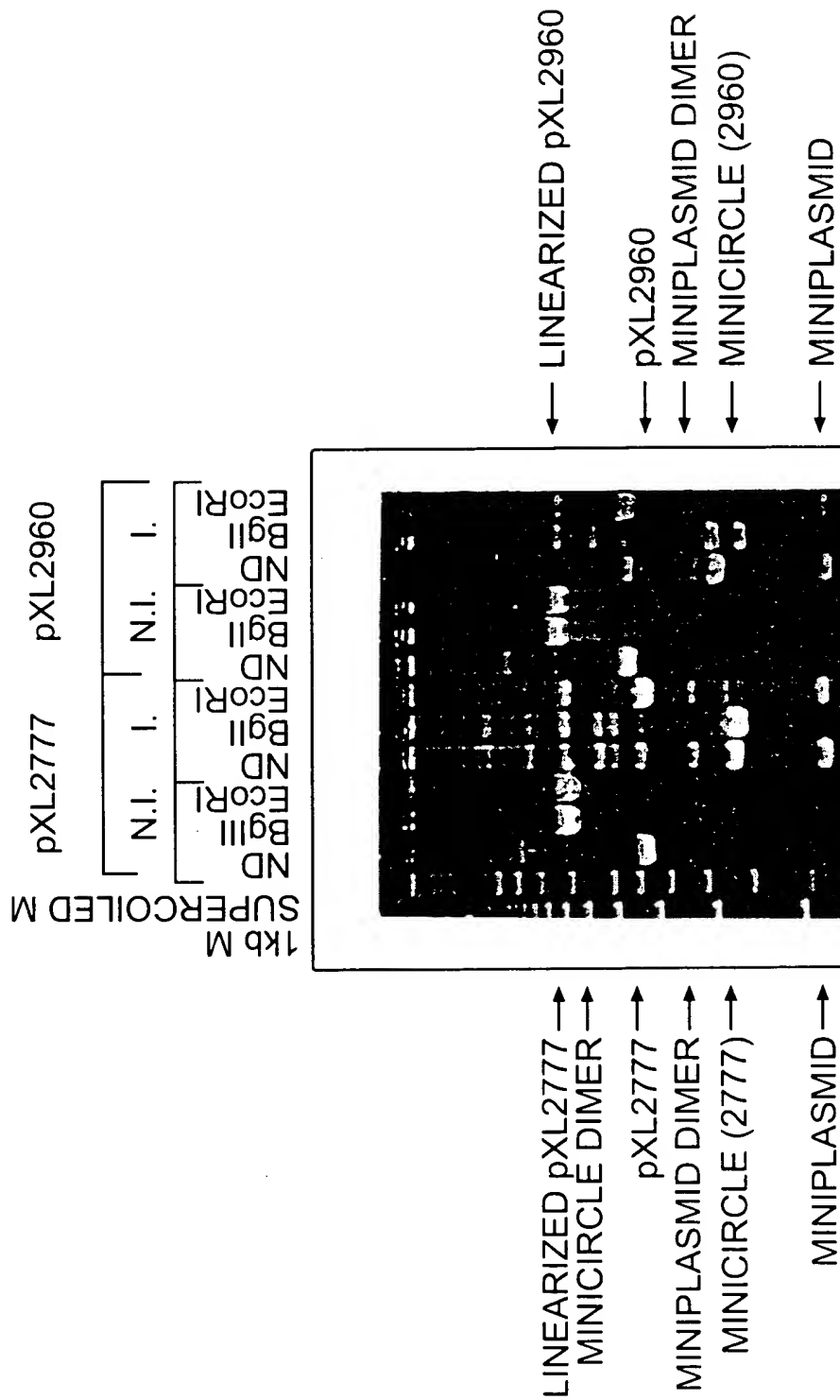


FIG. 10

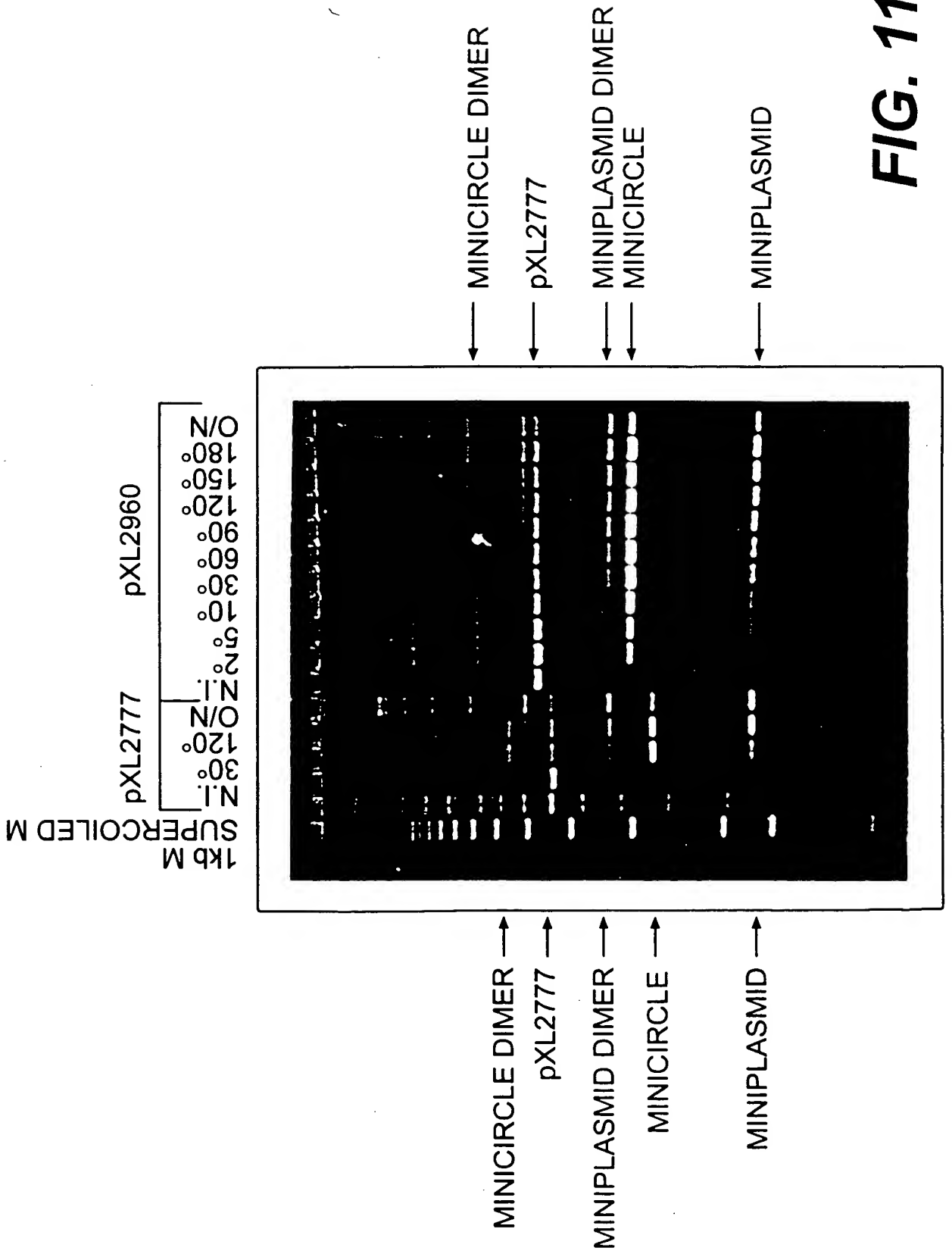


FIG. 11

Figure 12

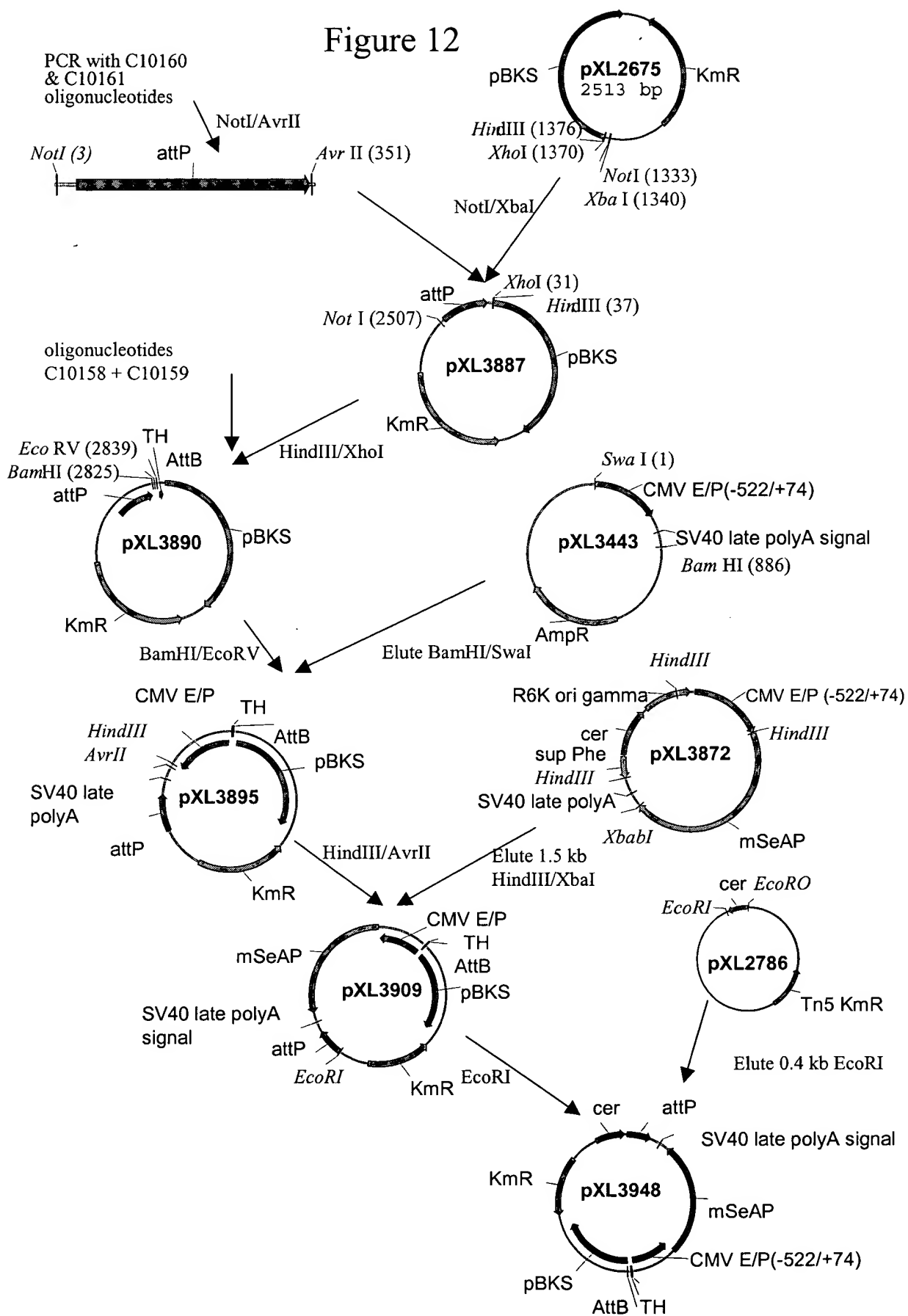
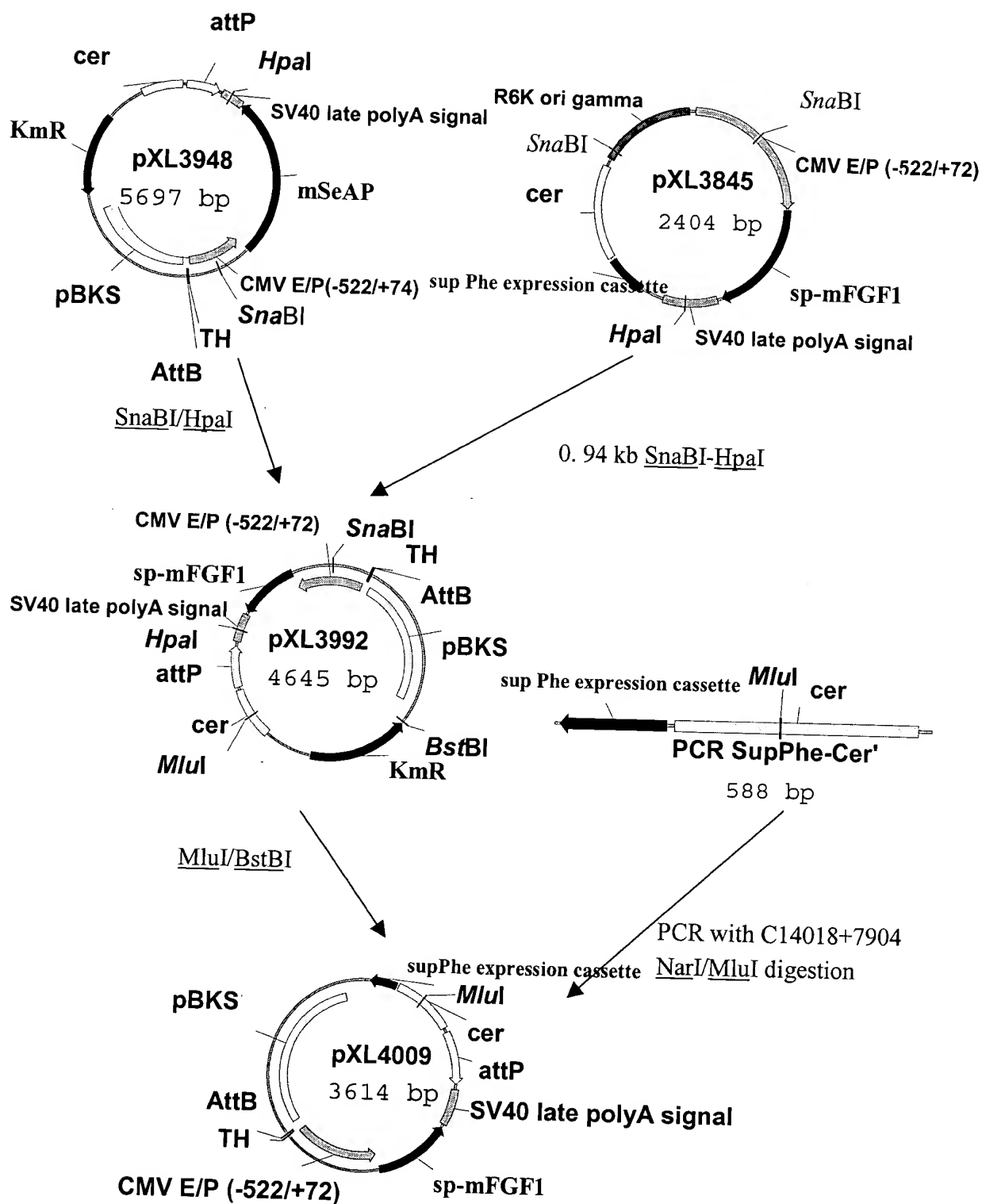
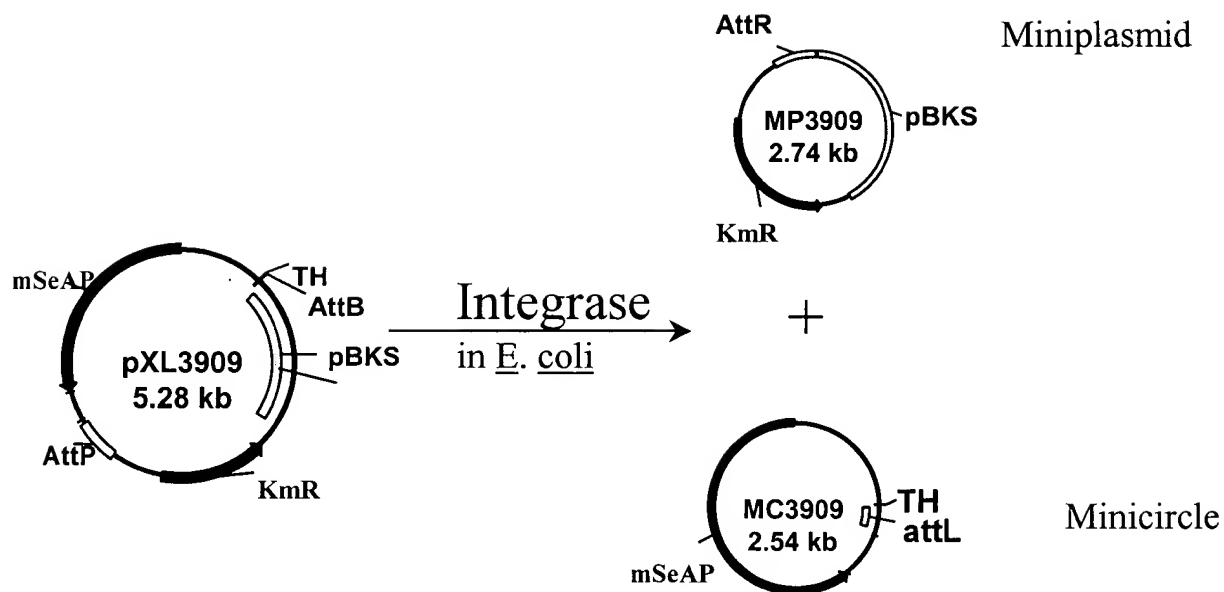


Figure 13



C14018: 5'-AAAGGCGCCAGCTTAAAAAAAATCC-3' (SEQ ID NO: 49)
 7904: 5'-CATACGTCATTATTGACGTC-3' (SEQ ID NO: 50)

Figure 14



TRIPLE HELIX SEQUENCE & attL (119 bp) (SEQ ID NO: 12)

5' - TTCTTTTTTTTCTTGAAGCCTGCTTTTTTATACTAAGTTGGCATTATAAAAAAGCATTGC-3'
 3' - AAGAAAAAAAGAACTTCGGACGAAAAAATATGATTCAACCGTAATATTTTTTCGTAACG-5'

5' - TTATCAATTTGTTGCAACGAACAGGTCAGTCAAAATAAAATCATTATTTGATT-3'
 3' - AATAGTTAAACAACGTTGCTTGCTCCAGTGATAGTCAGTTTTATTTTAGTAATAAACTAA-5'

Figure 15

Genome of *E. coli*
D1210HP
(Gene 1987 56 p145)

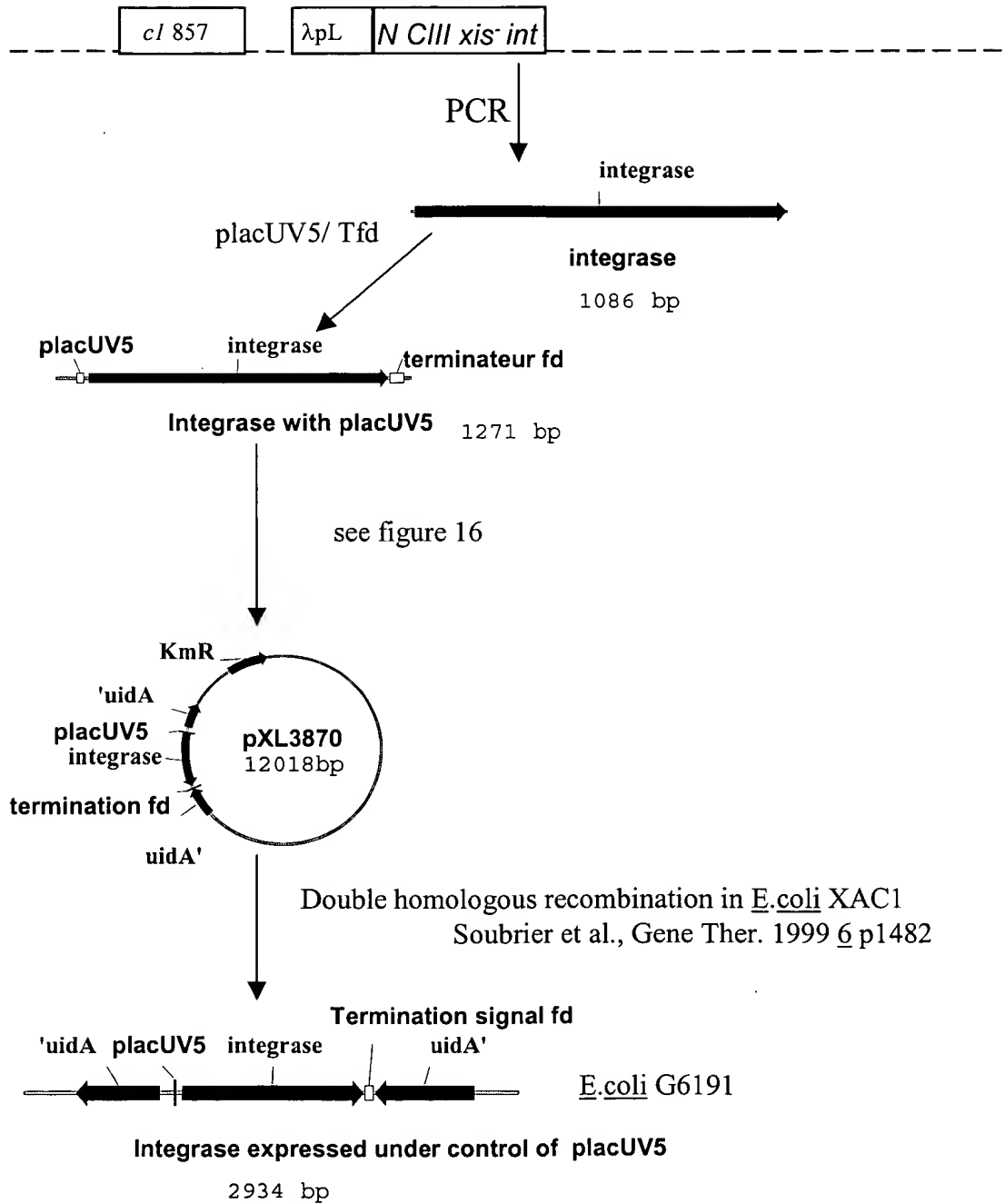
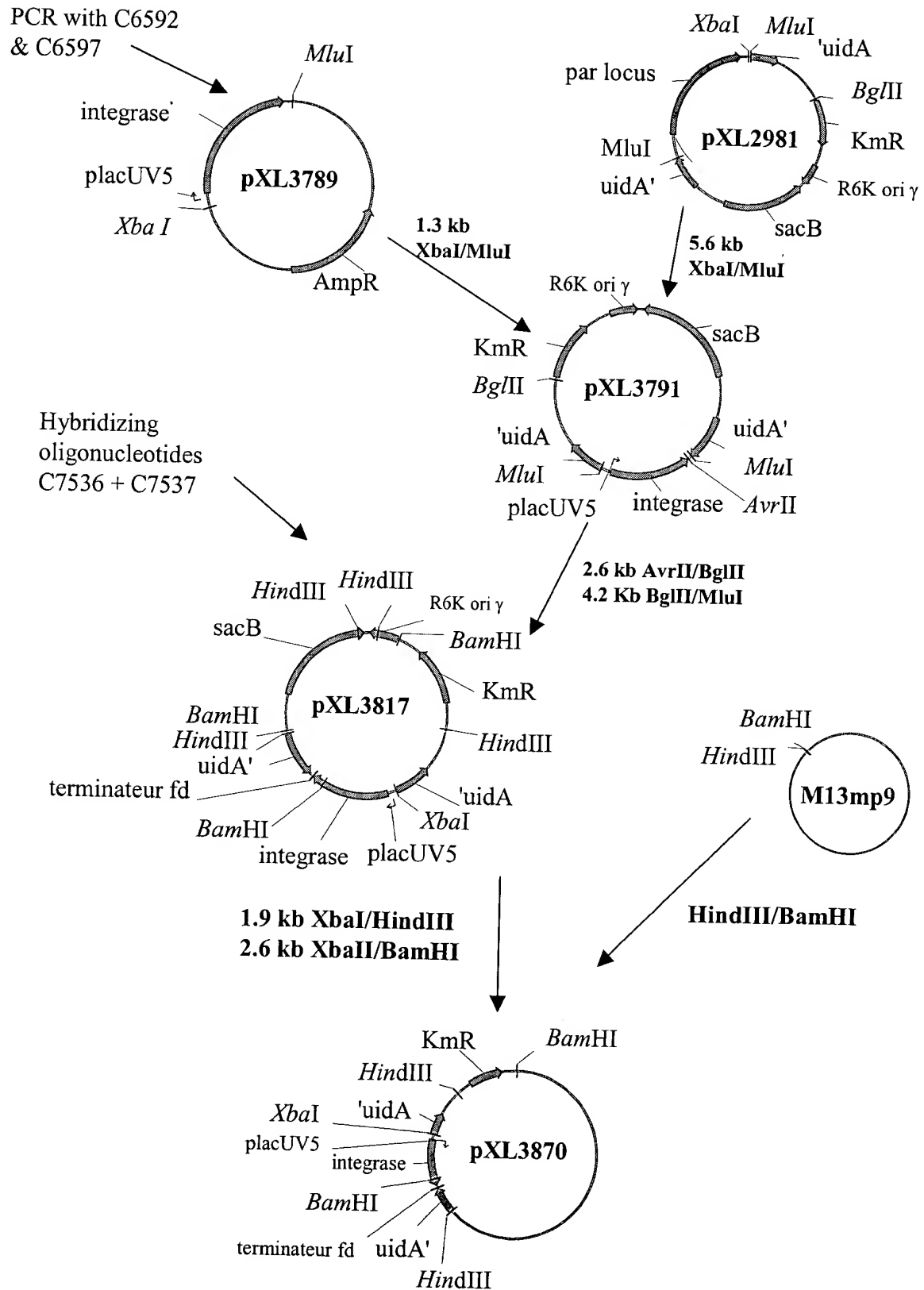
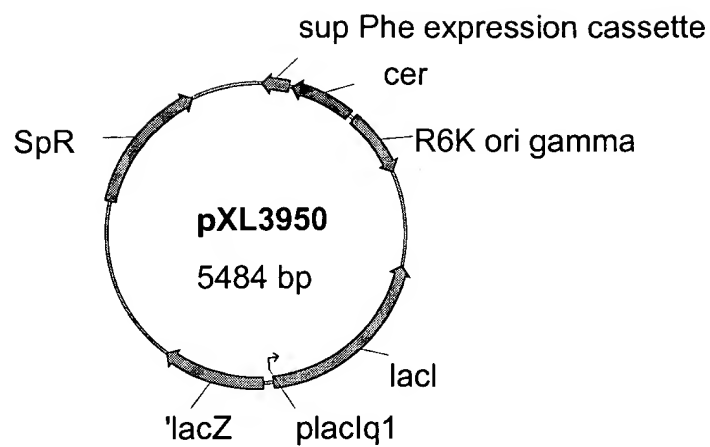


Figure 16



09031803-101901

Figure 17



Transformation in the strain G6191
Selection with spectinomycin

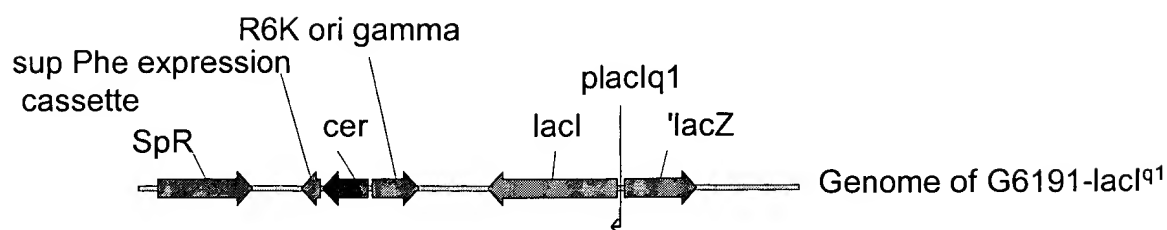
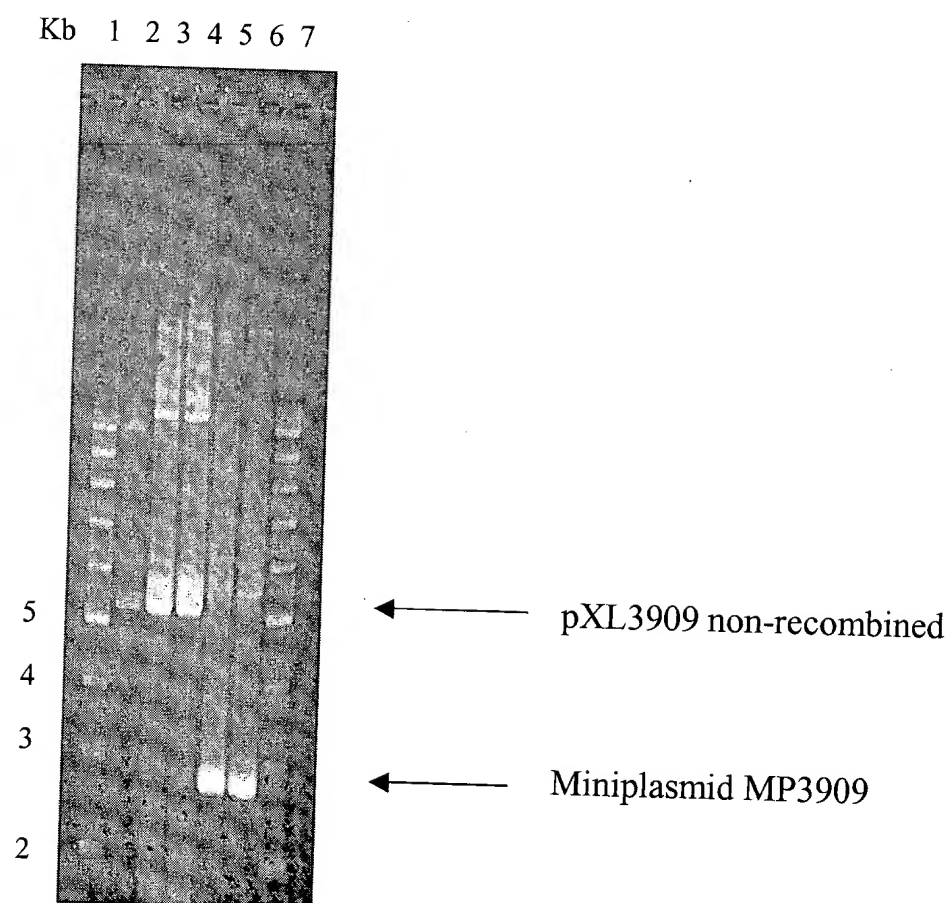


Figure 18



09981803-101901

Figure 19

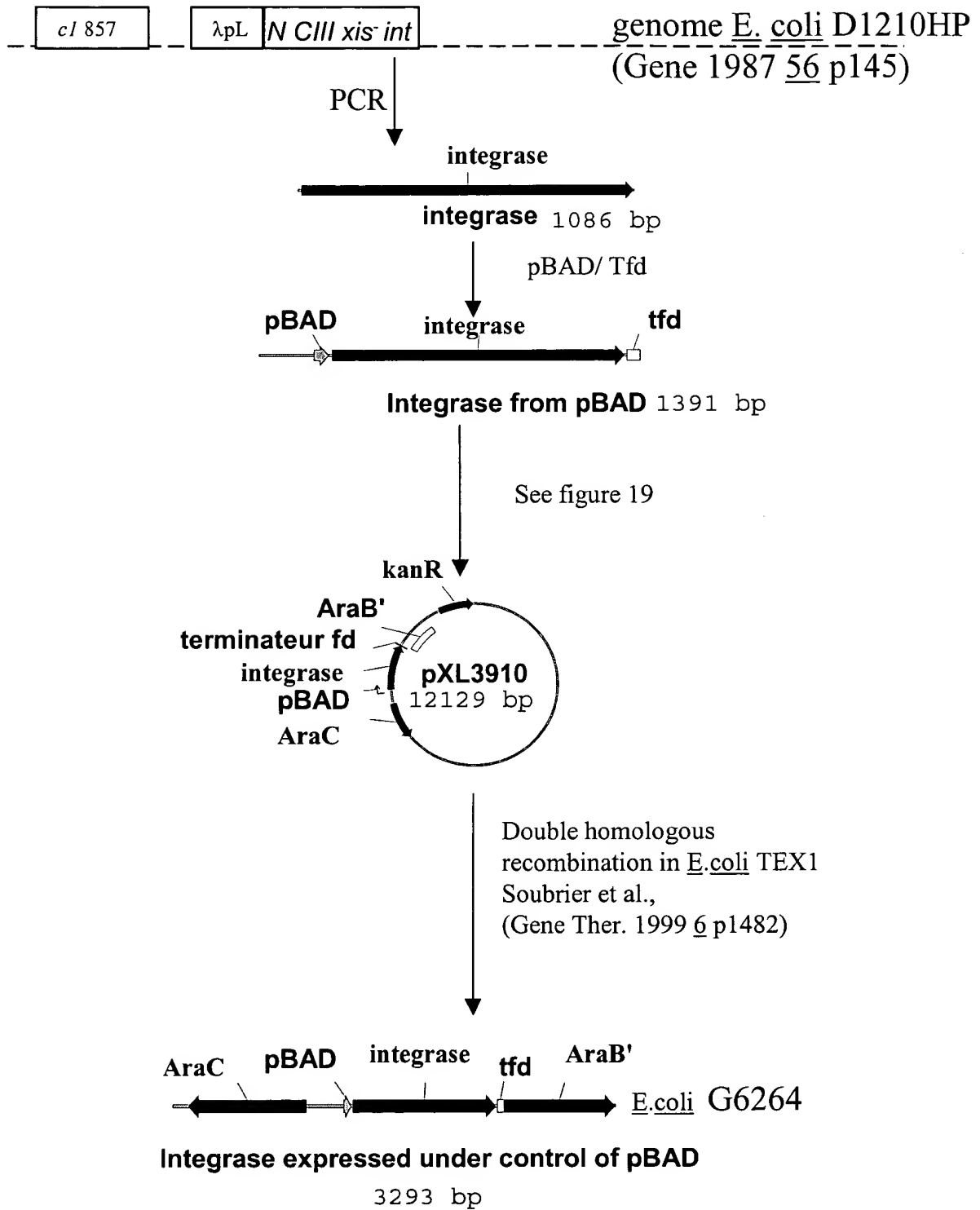


Figure 20

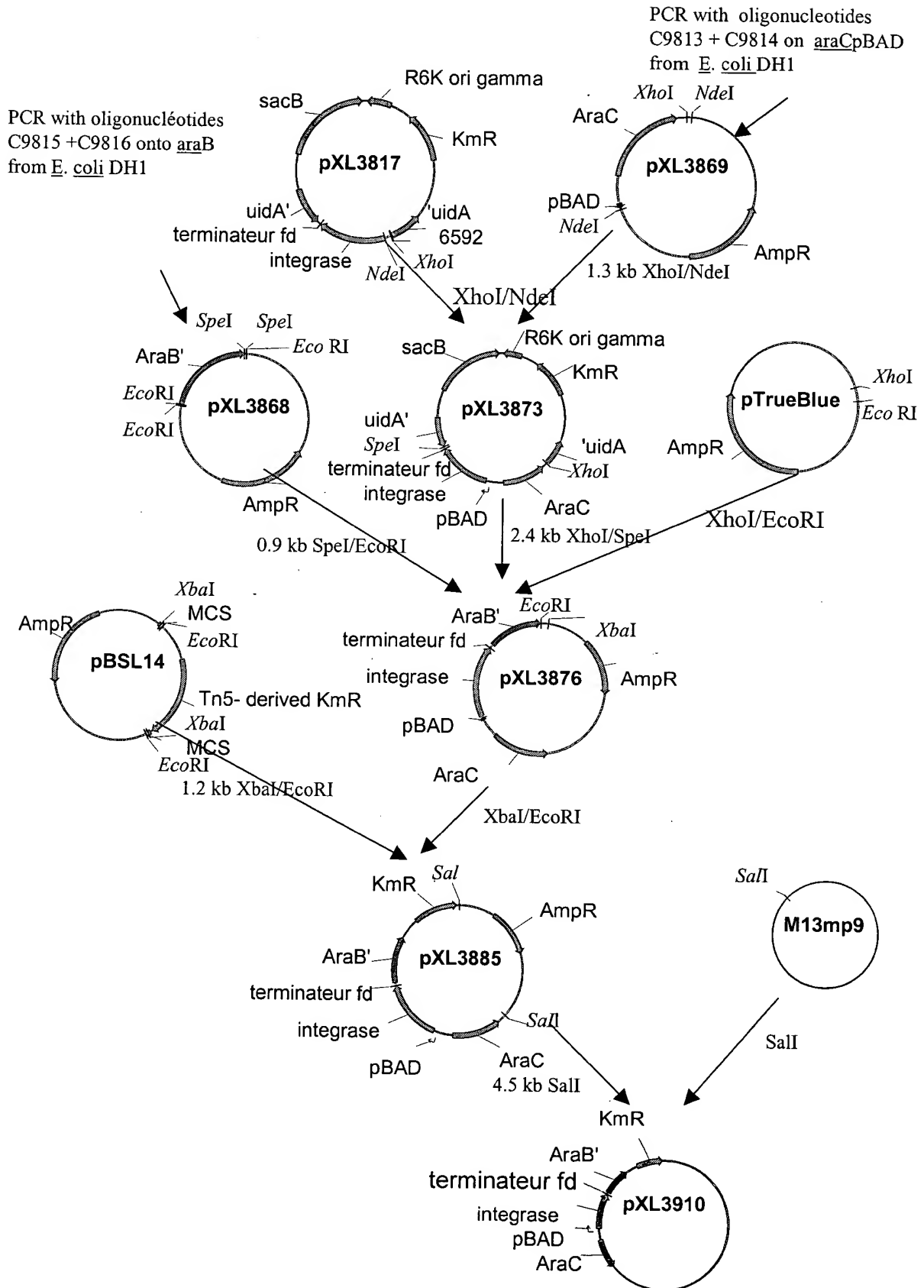
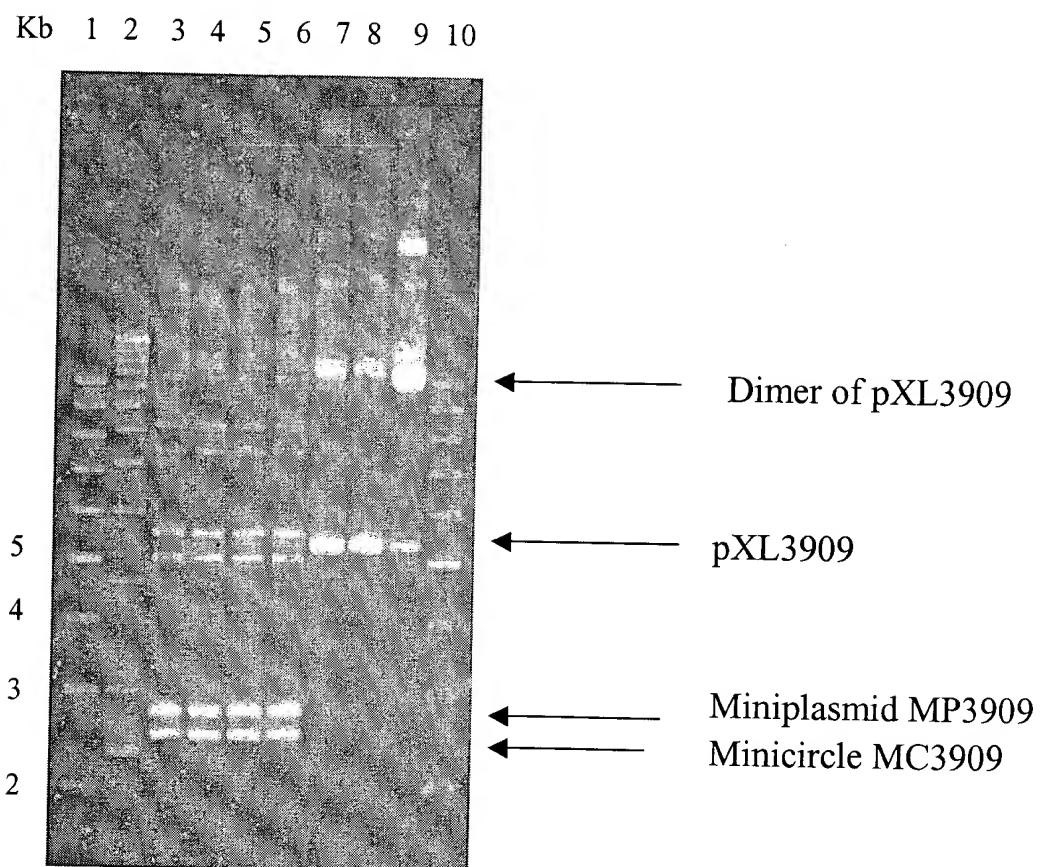
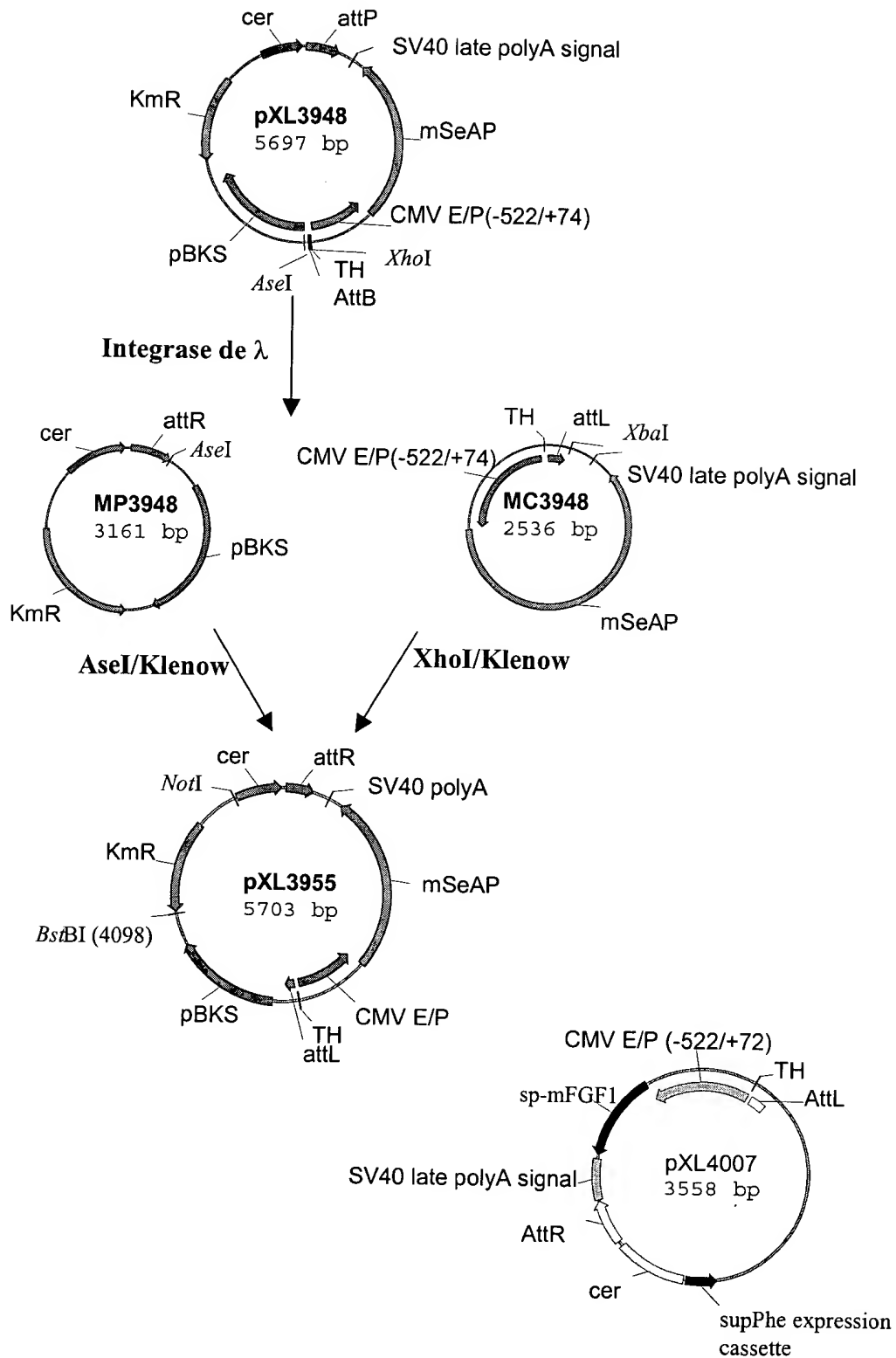


Figure 21



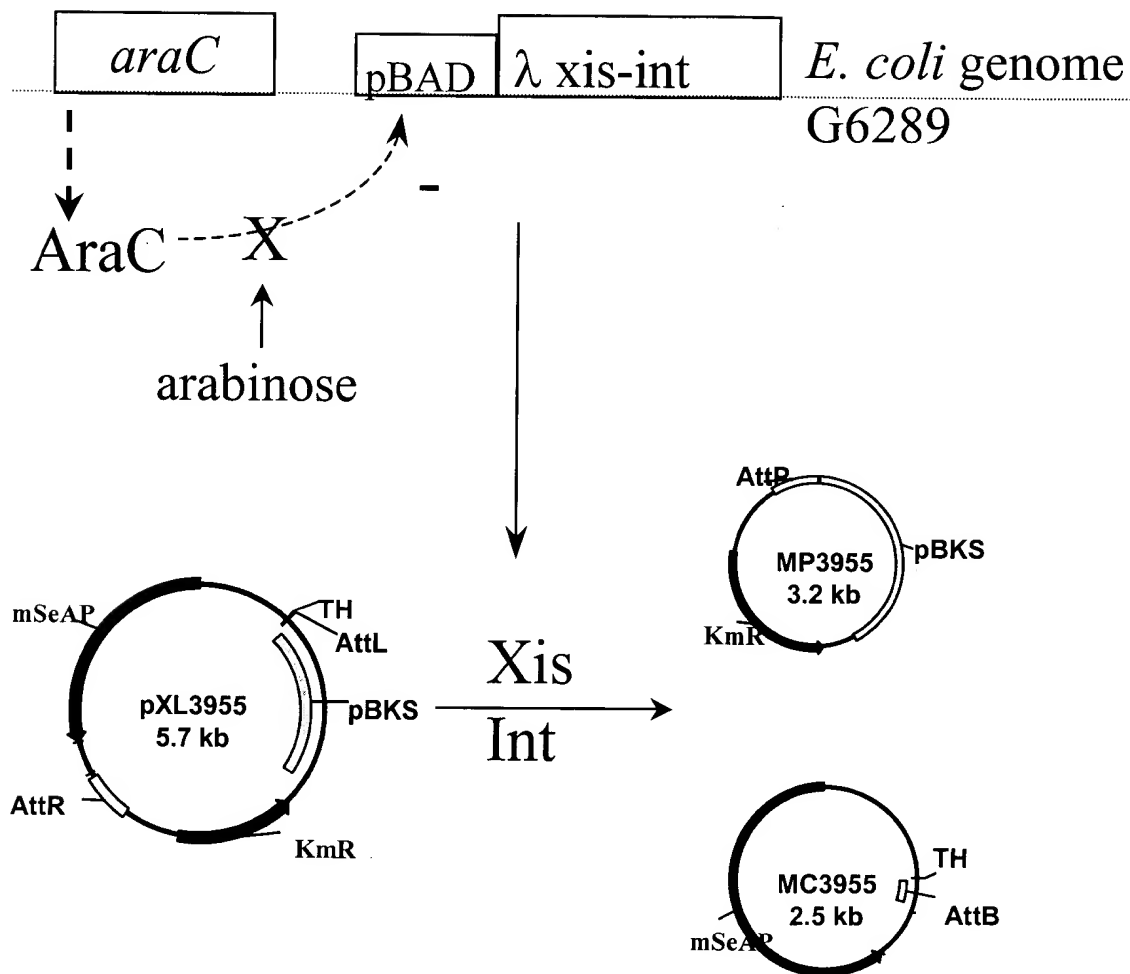
09981803-101901

Figure 22



09981803-101901

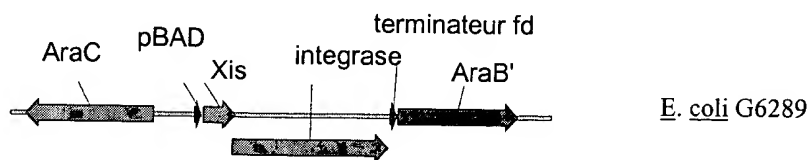
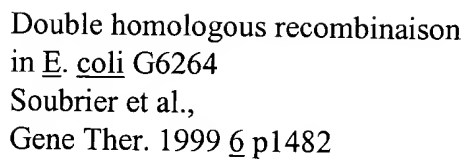
Figure 23



TH et attB (29bp) (SEQ ID NO:13)

5' - TTCTTTTTTTTCTTGAAGCCTGCTTTTTTATACTAACTTGAGC - 3'

3' - AAGAAAAAAGAAGCTTCGACGAAAAAATATGATTGAACTCG - 5'

[illegible]

Excisionase & Integrase expressed under control of pBAD

Figure 25

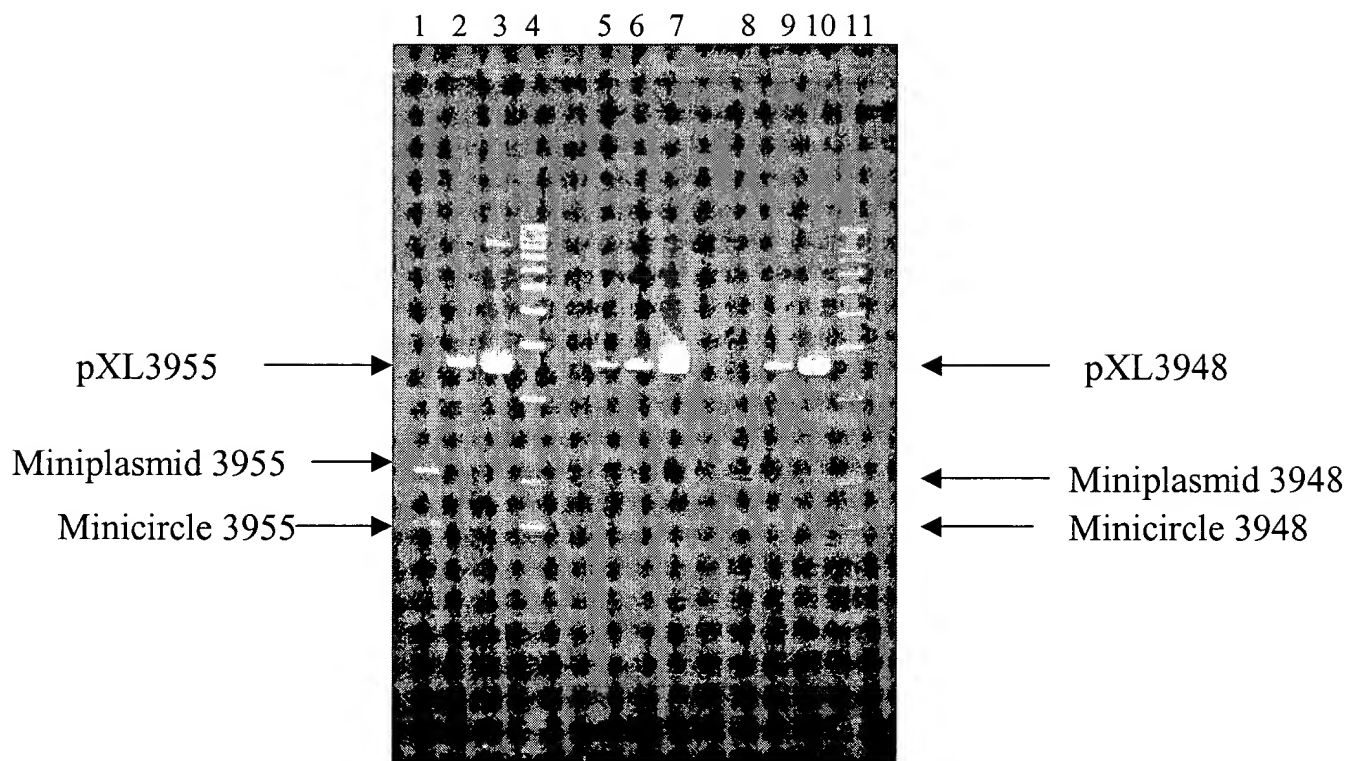
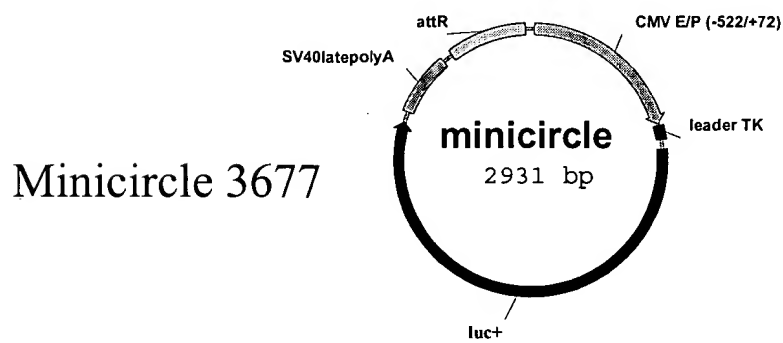
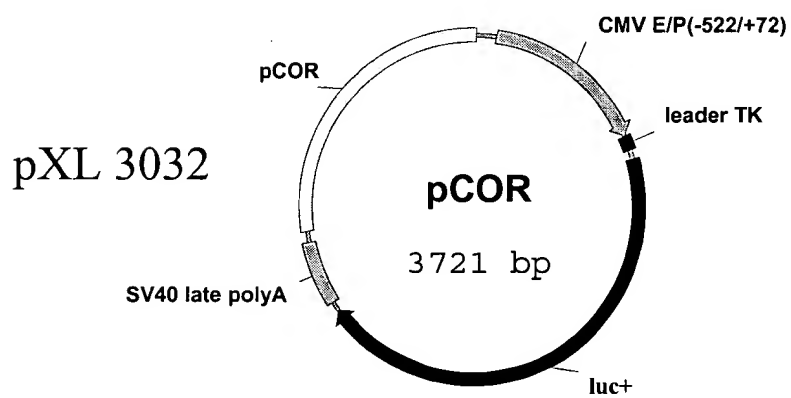
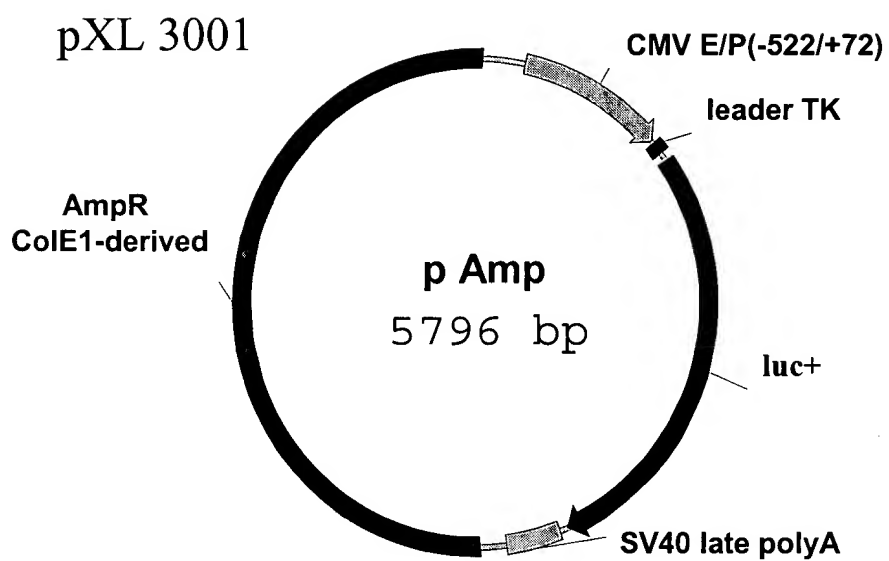


Figure 26



09981803 " 101901

Figure 27

